

# Comparisons of Job Characteristics

**Focus Occupation:** Locomotive Engineers (53-4011)

**Associated Occupation:** Subway and Streetcar Operators (53-4041)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

**Focus Occupation:** Locomotive Engineers (53-4011)

**Associated Occupation:** Subway and Streetcar Operators (53-4041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Transportation	4.6	15.8	13.9	<	Expanded education and/or training may be required
Public Safety and Security	6.9	14.8	8.7	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.2	4.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation:** Locomotive Engineers (53-4011)

**Associated Occupation:** Subway and Streetcar Operators (53-4041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation and Control	5.4	14.0	13.6	0	Current skill level may be sufficient
Operation Monitoring	6.6	13.3	13.3	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 89

**Focus Occupation:** Locomotive Engineers (53-4011)

**Associated Occupation:** Subway and Streetcar Operators (53-4041)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	14.7	14.4	0	Current ability level may be sufficient
Control Precision	6.6	13.4	14.4	0	Current ability level may be sufficient
Multilimb Coordination	6.0	12.7	12.5	0	Current ability level may be sufficient
Response Orientation	4.0	12.5	13.6	0	Current ability level may be sufficient
Far Vision	7.8	11.6	14.7	>>	Current ability level is likely more than sufficient
Sound Localization	2.2	10.0	5.4	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	8.3	7.3	<	Some improvement in abilities may be required
Peripheral Vision	2.2	7.8	7.4	0	Current ability level may be sufficient
Glare Sensitivity	2.6	7.6	7.6	0	Current ability level may be sufficient
Night Vision	2.1	6.5	6.2	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 94

**Focus Occupation: Locomotive Engineers (53-4011)**  
**Associated Occupation: Subway and Streetcar Operators (53-4041)**

Work Activities	Exclusivity of Activity
Monitor variables affecting route activities	89
Operate locomotives, dinkey engines, or other rail vehicles	92
Perform safety inspections in transportation setting	62
Transport passengers or cargo	64
Understand technical operating, service or repair manuals	6
Use two-way radio or mobile phone	42

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation: Locomotive Engineers (53-4011)**  
**Associated Occupation: Subway and Streetcar Operators (53-4041)**

Tools and Technologies	Exclusivity
Braking systems and components	70
Locomotives and electric trolleys	90
Personal communication devices	2
Railroad support equipment and systems	70

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.